Installation Instructions for V Series 83KV/93KV – 85KV/95KV locksets

Overview

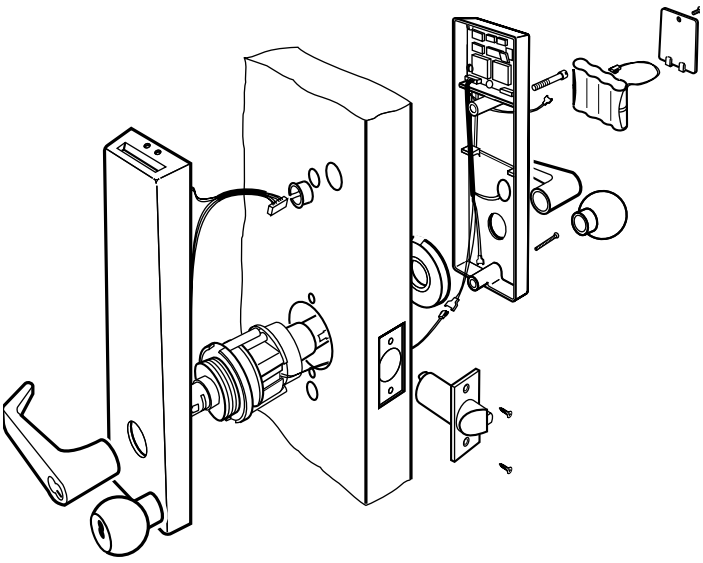

Figure 1

1 Position template

Note: *On steel frame applications, align the horizontal centerline of the latch with the horizontal centerline of the strike preparation.*

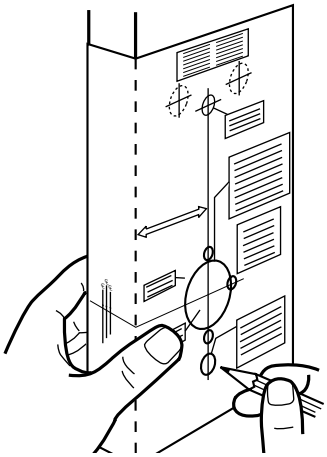

Figure 2

For uncut doors

- Fold the template along the perforation and carefully place it in position on the high side of the door edge bevel. The suggested height from floor to the centerline of the lock is 38."

For doors with standard cylindrical preparation

- Looking through the hole from the opposite side of the door, align the template so that you see the template outline of the 2 1/8" diameter hole.

1 Tape the template onto the door.
2 Center punch the drill points.

2 Drill holes and install latch

Note 1: *Determine whether fabricated hollow metal doors are properly reinforced to support the lock. If door reinforcement is not adequate, consult the door manufacturer for information on proper reinforcement.*

Note 2: *To locate the centerpoint of a hole on the opposite side of the door, drill a pilot hole completely through the door.*

For through-holes, it is best to drill halfway from each side of the door to prevent the door from splintering.

1 Drill a 3/8" diameter hole through the door for motor wires.
2 Bore the 2 1/8" diameter hole (if not already drilled).

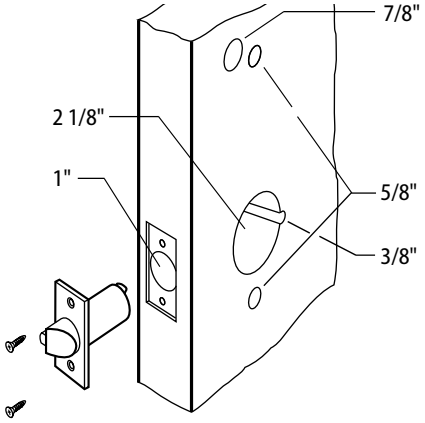

Figure 3

3 Drill the 1" diameter hole into the edge of the door to meet the center of the 2 1/8" hole (if not already drilled).
4 Drill two 5/8" diameter holes for trim and one 7/8" hole for the wire harness.
5 Mortise the door edge for the latch face.
6 Install the latch and check the door swing.
7 Drill one 7/8" diameter hole for wires.

Note: *Latch tube prongs should be centered and should project into the 2 1/8" hole as shown in step 6.*

3 Install boring jig & drill two 5/16" dia holes

1 Install boring jig (KD303) onto the door and engage with latch tabs. Make sure the front edge of the jig is parallel with the door edge.

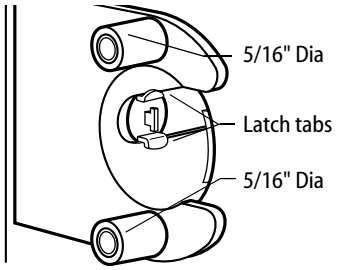

Figure 4

2 Drill 5/16" diameter holes halfway into the door.
3 Turn the boring jig over and repeat steps 1 and 2 from the opposite side of the door.

Note: *Replace the boring jig after 10 door preparations.*

4 Remove outside knob or lever

1 Remove the core and throw member (see service instructions on reverse side).

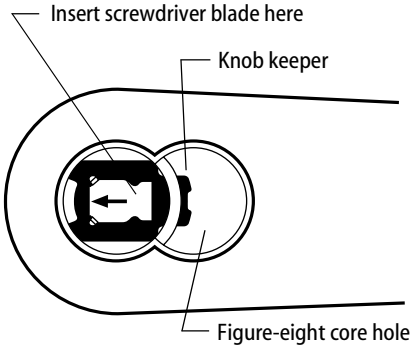

Figure 5

2 Insert a flat blade screwdriver into the figure-eight hole and into the knob keeper.
3 Depress the knob keeper.

Note: *You will not be able to remove the knob if the screwdriver blade is inserted too far past the keeper.*

4 Slide the lever off the sleeve.

5 Adjust to door thickness

■ Pull the rose locking pin and rotate the outside rose liner in or out until the proper groove on the through bolt stud, lines up with the hub face.

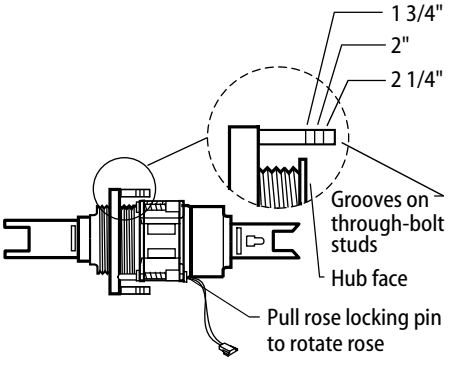

Figure 6

Note 1: *Make sure the locking pin fully locks into the rose liner.*

Note 2: *Locksets will fit door 1 3/4" to 2 1/4" thick. (A spacer is available for 1 3/8" doors.) See the enlarged view for the correct rose adjustment for these thicknesses.*

6 Engage retractor in latch

■ While feeding the motor wires through the 3/8" hole to the inside of the door, insert the lock chassis from the outside.

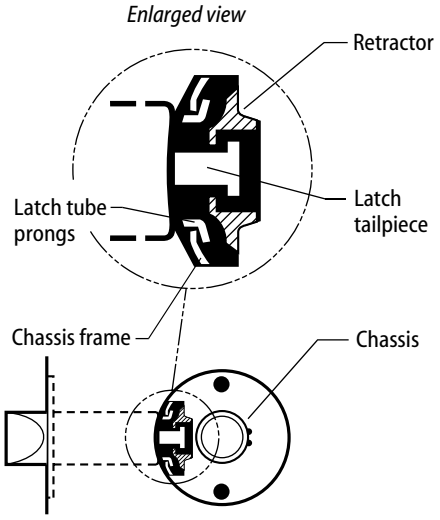

Figure 7

Caution: **Be sure latch tube prongs engage chassis frame and latch tailpiece engages the retractor.**

7 Install through-bolts and rose liner

1 Making sure the motor wires come through the notch in the 2 1/8" hole, align holes in the liner with the holes prepared in the door.

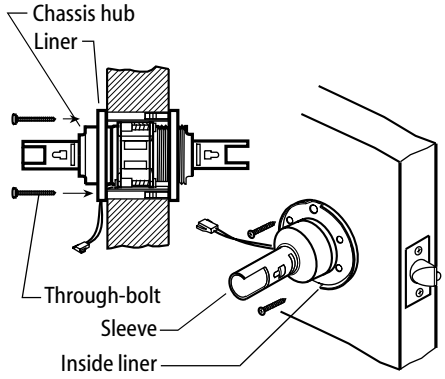

Figure 8

Caution: **Make sure that there is clearance for the motor wire between the rose liner and the door.**

2 Install through-bolts through the liner and door in the top and bottom holes.
3 Tighten the liner onto the door with the through-bolts.

8 Make wire connections

1 Insert the bushings into the wire hole as shown in Figure 9 and Figure 10.
2 Feed the outside wire harness connector through the top wire hole (Figure 9).

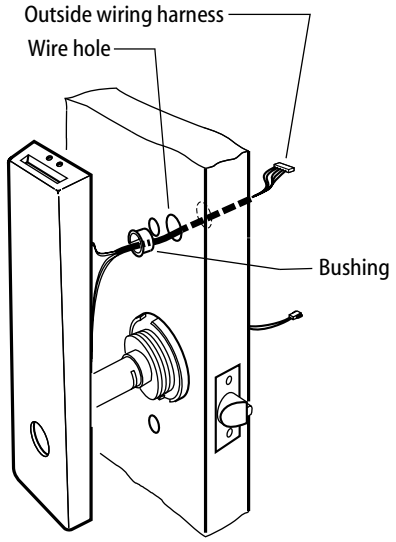

Figure 9

3 Temporarily rest the trim on the door by inserting the trim studs into the stud holes.
4 From the inside of the door, connect the motor connector to the mating connector from the circuit board (Figure 10).

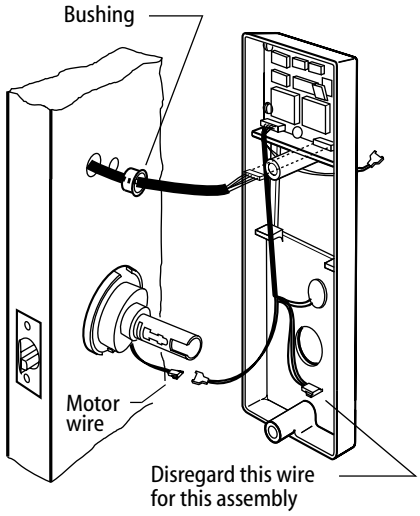

Figure 10

5 Making sure the connector is properly aligned, connect the outside wire harness connector to the lower right circuit board connector in the inside trim. Press firmly until fully seated.

9 Throughbolt trim

1 Pull excess outside wire harness back through to the outside trim.

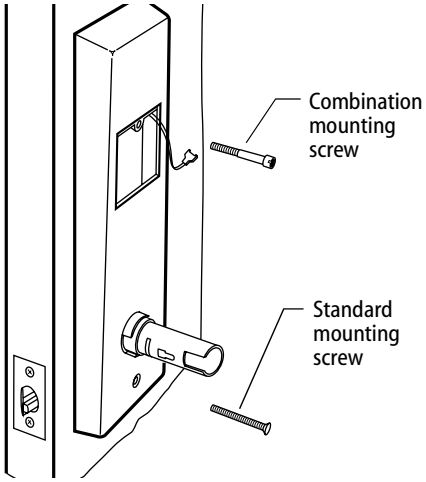

Figure 11

2 Position inside and outside trim onto the door.

3 **Making sure the trim does not pinch the wires**, secure the trim to the door — but do not tighten — with the combination mounting screw at the top mounting hole and with the standard screw at the bottom mounting hole.

10 Connect battery

1 Connect the battery to the connector hanging inside the battery compartment.

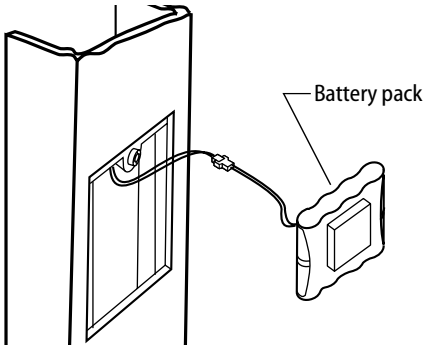

Figure 12

2 Insert the battery pack into the battery compartment.

11 Install battery compartment door

1 Insert the tabs of the battery compartment door into its mating slots and swing closed.

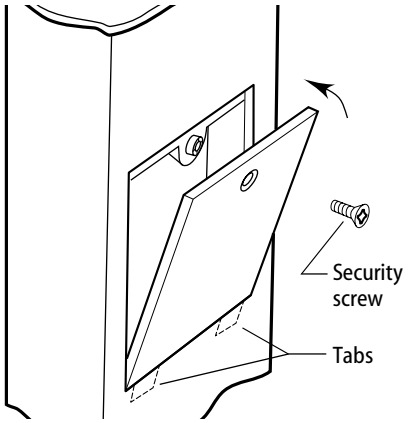

Figure 13

2 Secure the battery compartment door with the security screw. Tighten firmly.

12 Install inside and outside knobs or levers

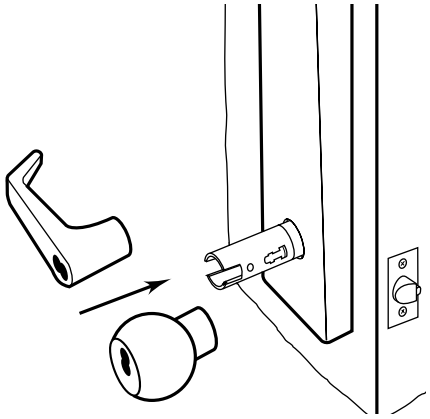

Figure 14

For the inside and outside levers

1 With the levers pointing toward the hinges, push on firmly until seated.

2 Tighten the trim mounting screws (see Figure 11).

3 Turn the levers to check for smooth operation.

For the inside and outside knobs

1 Push the knobs on firmly until seated.

2 Tighten the trim mounting screws (see Figure 11).

3 Turn the knobs to check for smooth operation.

***Caution:* Wires can interfere with the knob or lever operation.**

13 Install strike plate

***Caution:* The deadlocking plunger of the latch bolt must not enter the strike plate. The plunger deadlocks the latch bolt and prevents forcing the latch when the door is closed.**

1 In alignment with the center of the latch bolt, mortise the door jamb to fit the strike box and strike plate.

2 Insert the strike box and secure the strike with screws provided.

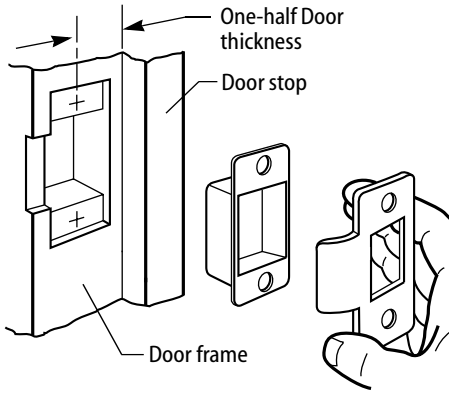

Figure 15

14 Install core and throw member

1 Install the blocking plate onto the throw member.

***Caution:* You must use the blocking plate to prevent unauthorized access.**

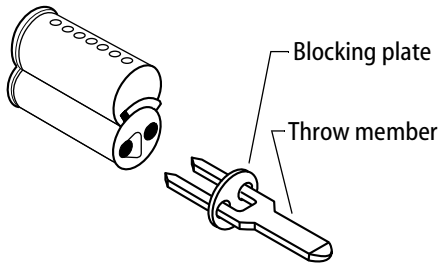

Figure 16

2 Insert the control key into the core and rotate 15 degrees to the right.

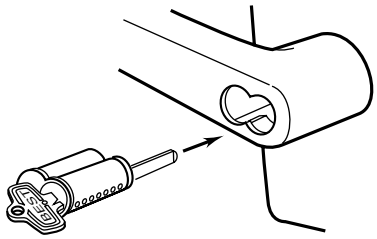

Figure 17

3 Insert the core and throw member into the knob or lever with the control key.
4 Rotate the control key 15 degrees to the left and withdraw the key.

Note: *Be sure to insert the correct throw member into the core: six-pin cores require the number "6" throw member; seven-pin cores require the number "7" throw member.*

Caution: **The control key is a security key.**

15 Test lock

To test the lock for proper operation, use the temporary operator card or personal identification number (PIN) that came with the lock. This card or PIN is for temporary use only and once permanent cards or PINs have been programmed for the lock, you should delete the temporary cards or PINs.

These temporary operator cards and PINs will only work on factory default V Series locks.

For magnetic stripe card electronic locks

1 With the temporary operating instructions facing toward you, insert and remove the temporary operator card as shown in Figure 18.

The green light flashes and the locking mechanism unlocks.

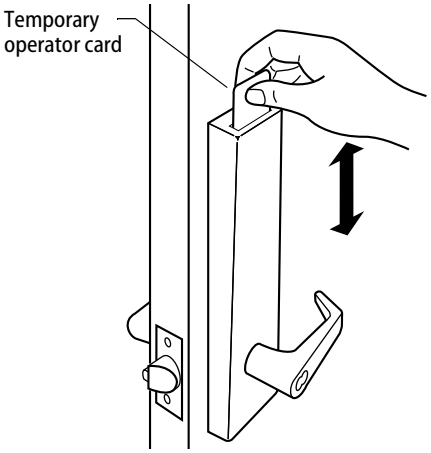

Figure 18

Note 1: *If the lock beeps and the lock remains locked, make sure that you insert and remove the card in a smooth motion.*

Note 2: *If the lock's green light stays on and the lock remains locked, make sure that you're using the temporary operator card and not the temporary communication card*

Note 3: *If the lock's green light flashes but the lock remains locked, make sure that the motor wires are connected.*

Note 4: *If the lock does not respond (no lights, no tones, and the lock remains locked, try one of the following solutions:*

- ▲ make sure that the battery is connected
- ▲ make sure that the outside wire harness is connected.

2 Turn the lever or knob and open the door.
3 Insert and turn the key to unlatch the door.

For details on programming the lock for access control, refer to the *V Series Intelligent Programming Software User Manual* or the *V Series Handheld Terminal User Manual*.

For keypad electronic locks

1 Enter the temporary operator PIN **99998** on the keypad as shown in Figure 19.
2 Press ✻.

The green light flashes and the locking mechanism unlocks.

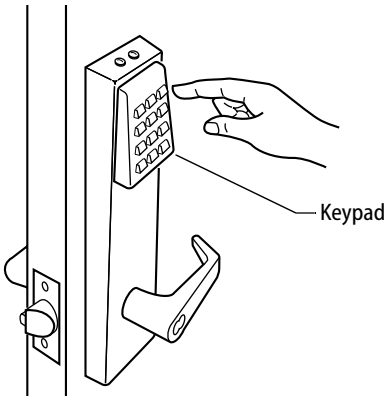

Figure 19

Note 1: *If the lock beeps and remains locked, make sure that you're using the temporary operator PIN and not the temporary communication PIN.*

Note 2: *If the lock's green light flashes but the lock remains locked, make sure that the motor wires are connected.*

Note 3: *If the lock does not respond (no lights, no tones, and the lock remains locked, try one of the following solutions:*

- ▲ make sure that the battery is connected
- ▲ make sure that the outside wire harness is connected.

3 Turn the lever or knob and open the door.
4 Insert and turn the key to unlatch the door.

For details on programming the lock for access control, refer to the *V Series Intelligent Programming Software User Manual* or the *V Series Handheld Terminal User Manual*.

For proximity card electronic locks

1 Place the temporary operator card in front of the proximity reader as shown in Figure 20.

The green light flashes and the locking mechanism unlocks

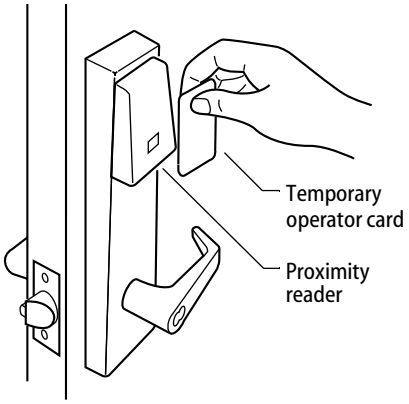

Figure 20

Note 1: *If the lock's green light flashes but the lock remains locked, make sure that the motor wires are connected.*

Note 2: *If the lock's green light stays on and the lock remains locked, make sure that you're using the temporary operator card and not the temporary communication card.*

Note 3: *If the lock does not respond (no lights, no tones, and the lock remains locked, try one of the following solutions:*

- ▲ make sure that the battery is connected
- ▲ make sure that the outside wire harness is connected.

2 Turn the lever or knob and open the door.
3 Insert and turn the key to unlatch the door.

For details on programming the lock for access control, refer to the *V Series Intelligent Programming Software User Manual* or the *V Series Handheld Terminal User Manual*.